Olney Central College

WEL 1225

Blueprint Reading

Course Prerequisites- None

CRN- 60739

Semester/Year- Spring 2014

Class Meets- Wednesday- 5:00pm- 8:50pm

Class Location- RMW

Instructor Name- Reno Bemont

Office Location- RMW

Office Hours- M- F 1:00pm 3:00pm

Email Address- bemontr@iecc.edu

Office Phone- 618-544-8352

**Course Description**:

A practical course consisting of basic sketching, dimensioning material shapes and welding blueprint interpretation. Four classroom hours per week. 4 semester hours credit.

**Student Learning Outcomes**:

Successful completers will:

1. Demonstrate a working knowledge of scales, dimensions, orthographic projection and dimensions as applied to welding shop communications.

2. Sketch informal shop prints.

3. Interpret welding symbols, identify material shapes and interpret welding blueprints.

4. Exhibit a basic understanding of metallurgy required of a competent welder.

5. Interpret both basic and advanced welding fabrications blueprints including: welding symbols, weld testing symbols, structural steel shapes, and welding specifications.

**Required Course Materials**

Textbook-

WELDING SKILLS: Gianchino & Weeks. American Technical Society. Current edition.

Supplies or other materials

**Grading Criteria** (not all required)

Exams

Quizzes

Homework

Projects

Class Participation

Grading Scale

**Course Policies**

Attendance- Students are expected to be in class every class meeting date.

Late Work-

Academic Integrity- See IECC Plagiarism Policy in IECC Catalog

Expectations of Students- See Code of Student Conduct in IECC Catalog

**Important Dates**

Final Exam

Tentative Test Dates

Tentative Quiz Dates

Assignment Due Dates (if possible/if applicable)

Project Due Dates (if possible/if applicable)

**Tentative Course Outline**

Topical Outline:

I. Weeks One through Five

 A. Basic Lines

 B. Basic Views

 C. Applied Geometry

 D. Orthographic

 E. Notes and Specification

 F. Dimensions

II. Weeks Six through Seven

 A. Structural Shapes

 B. Other Views

 C. Abbreviations and Symbols

III. Week Eight

 A. Section

 B. Detail and Assembly Prints

IV. Weeks Nine through Eleven

 A. The Welding Symbol

 B. Welding Abbreviations

V. Week Twelve

 A. Fillet Welds

 B. Groove Welds

C. Metallurgy

VI. Weeks Thirteen through Fifteen

 A. Backing and Melt-Thru Welds

 B. Plug and Slot Welds

 C. Surfacing, flash, upset welds

 D. Flange Welds

 E. Spot Welds: Arc, Resistance

 F. Arc-Seam Welds

 G. Projection Welds

 H. Resistance-Seam Welds

 I. Combination Welds

VII. Final Exam

 A. Written

 B. Practical

**General Information**

Disclaimer “This Syllabus is subject to change at the discretion of the instructor. Due notice will be given to the student.”

Support Services: “It is IECC policy to provide reasonable accommodations to students with disabilities. If you would like to request academic support services please contact your instructor or the Learning Skills Center/Academic Assistance Center.

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